

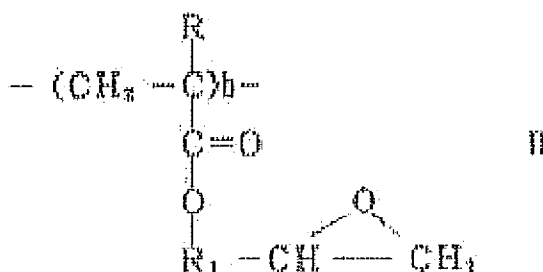
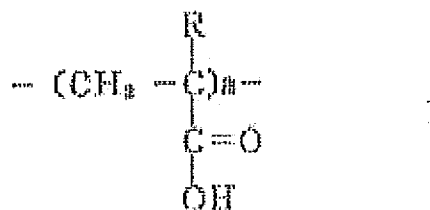
COPOLYMER RESIN**Publication number:** JP2000034319 (A)**Publication date:** 2000-02-02**Inventor(s):** UEDA KENJI; SHIODA SATOSHI; NISHIJIMA KOKEI; MUKOYAMA TOMOAKI; MIHASHI SHUICHI**Applicant(s):** DAINIPPON PRINTING CO LTD; INCTEC INC**Classification:**

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- **European:** C08F8/00; C08F8/00

Application number: JP19980203066 19980717**Priority number(s):** JP19980203066 19980717**Abstract of JP 2000034319 (A)**

PROBLEM TO BE SOLVED: To obtain the subject new resin capable of controlling the content of an alkali-soluble group or a radically polymerizable group such as (meth) acryloyl and suitable for forming a protective coat for a color filter by introducing the (meth)acryloyl into the copolymer according to a specific method. **SOLUTION:** This copolymer resin has units represented by formula I and II (R is H, a 1-5C alkyl or the like), contains a product formed by reacting a part of epoxy groups in the units represented by formula II with (meth)acrylic acid as constituent units and further has 5-55 mol.% of the units represented by formula I, 5-95 mol.% of the units derived from formula II and 5-95 mol.% of (meth)acryloyl and has 5-400 mgKOH/g acid value and 10,000-1,000,000 weight-average molecular weight expressed in terms of polystyrene.; For example, acrylic acid is cited as a monomer capable of providing the units represented by formula I and, e.g. glycidyl (meth)acrylate is cited as the monomer providing the units represented by formula II. The objective copolymer is preferably obtained by affording a copolymer having the units represented by formulae I and II and then introducing the (meth)acryloyl thereinto.



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